AMPEREX TRANSMITTING TUBE 211-D

FULLY INTERCHANGEABLE WITH AMPEREX HF 140

R.F. Power Amplifier, Oscillator, A.F. Power Amplifier, Modulator

MAXIMUM RATINGS AND TYPICAL OPERATING CONDITIONS

A.F. Power Amplifier or Modulator-Class A

	Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage		— 55	77
Peak A.F. Grid Voltage		50	72
D.C. Plate Current (ma.)		70	60
Plate Dissipation (watts)	75	70	75
Load Resistance (ohms)		7600	9200
Power Output (watts)		12.2	20
Distortion (% Second			
Harmonic)		2.5	5

A.F. Power Amplifier or Modulator-Class B

Maximum Rating per Tube	Typical Operation Two Tubes	
	10	10
1250	1000	1250
	-77	95
	1725	2250
	6900	9000
	20	20
age	348	390
175	320	320
220	320	400
100		
	5.5	7
	216	280
	Rating per Tube 1250	Rating Per Tube Two: 10 1250 1000 -77 1725 6900 20 348 175 320 220 320 100 5.5

R.F. Power Amplifier-Class B-Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage		-60	-80
Peak R.F. Grid Voltage		100	100
D.C. Plate Current (ma.)	150	130	106
Plate Input (watts)	150	130	132
Plate Dissipation (watts)	100	88	86
D.C. Grid Current (Approx.) (ma.) Driving Power at Peak		2	1
Modulation (Approx.) (wa	tts)	3.5	2.5
Plate Power Output (watts) Frequency Limit for Above		42	46
Operation (megacycles)	15	20	15

GENERAL CHAI	
Filament:	
Voltage	10 volts
Current	3.25 amperes
Amplification Factor	12
GENERAL CHAI Filament: Voltage Current Amplification Factor Grid to Plate Transconductance at 100 ma. Direct Interelectrode Capa Grid to Plate Grid to Filament Plate to Filament	4500 micromhos
Direct Interelectrode Capa	icitances:
Grid to Plate	12.5 $\mu \mu f$
Grid to Filament	5.5 $\mu\mu$ f
Plate to Filament	3.0 $\mu\mu f$

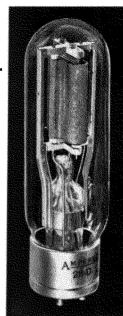
Plate Modulated R.F. Power Amplifier Class C—Telephony

(Carrier conditions for use with modulation factor of 1.0)

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	-260	-300
Peak R.F. Grid Voltage		390	430
D.C. Plate Current (ma.)	175	150	166
Plate Input (watts)	210	150	208
Plate Dissipation (watts)	67	35	60
D.C. Grid Current (Approx.)			
(ma.)	50	13	8
Driving Power (Approx.)			
(watts)		5	3.5
Plate Power Output (watts)		115	148
Frequency Limit for Above			
Operation (megacycles)	3	15	3
F.C.C. Broadcast Rating			
(watts)	125		125

R.F. Power Amplifier or Oscillator—Class C Telegraphy

	Maximum Rating per Tube	Typical Operation One Tube	
A.C. Filament Voltage		10	10
D.C. Plate Voltage	1250	1000	1250
D.C. Grid Voltage	-400	250	-300
Peak R.F. Grid Voltage		390	430
D.C. Plate Current (ma.)	175	165	166
Plate Input (watts)	220	165	208
Plate Dissipation (watts)	100	40	60
D.C. Grid Current (Approx.))		
(ma.)	50	16	8
Driving Power (Approx.)			
(watts)		6	3.5
Plate Power Output (watts)		125	148
Frequency Limit for Above			
Operation (megacycles)	15	20	15



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